In the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims

Claim 1. (Currently Amended) A communication control apparatus for dividing one network into a first segment and a second segment, comprising:

a first port connected to said first segment;

a second port connected to said second segment; ~~and~~

a CIP header detecting unit adapted to detect whether or not an isochronous packet received by said first port includes a CIP (common isochronous packet) header conforms to IEC 61883 standard; and

a control ~~means for providing such a control as to, when a predetermined condition is satisfied,~~ unit adapted to control to cause ~~an~~ the isochronous packet received by said first port not to be relayed to said second port, if it is detected that the isochronous packet received by said first port includes the CIP header.

Claim 2. (Currently Amended) A communication control apparatus according to claim 1, ~~wherein, when providing such a control as to cause an isochronous packet received by said first port not to be relayed to said second port~~ wherein if it is detected that the isochronous packet received by said first port includes the CIP header, said control ~~means provides such a control as~~ unit controls to replace the isochronous packet received by said first port with another isochronous packet and then to relay said another isochronous packet to said second port.

Claim 3. (Currently Amended) A communication control apparatus according to claim 2, wherein said another isochronous packet ~~is an another isochronous which~~ includes dummy data or null data.

Claim 4. (Cancelled)

Claim 5. (Cancelled)

Claim 6. (Cancelled)

Claim 7. (Currently Amended) A communication control apparatus according to claim 1, ~~wherein, when providing such a control as to cause an isochronous packet received by said first port not to be relayed to said second port~~ wherein if a mode in which an isochronous packet transmitted from any node that belongs to said first segment is prevented from being relayed to said second port is set, said control ~~means provides such a control as~~ unit controls to cause the isochronous packet received by said first port not to be relayed to said second port.

Claim 8. (Cancelled)

Claim 9. (Cancelled)

Claim 10. (Currently Amended) A communication control apparatus according to claim 1, wherein said ~~network is a network conforming~~ first and second ports conform to the IEEE 1394—1995 ~~Standard~~ standard.

Claim 11. (New) A method performed by a communication control apparatus for dividing one network into a first segment and a second segment, and the communication control apparatus includes a first port connected to said first segment and a second port connected to said second segment, the method comprising steps of:

detecting whether or not an isochronous packet received by said first port includes a CIP (common isochronous packet) header conforms to IEC 61883 standard; and

controlling to cause the isochronous packet received by said first port not to be relayed to said second port, if it is detected that the isochronous packet received by said first port includes the CIP header.

Claim 12. (New) A method according to claim 11, further comprising a step of:

if it is detected that the isochronous packet received by said first port includes the CIP header, controlling to replace the isochronous packet received by said first port with another isochronous packet and then to relay said another isochronous packet to said second port.

Claim 13. (New) A method according to claim 12, wherein said another isochronous packet includes dummy data or null data.

Claim 14. (New) A method according to claim 11, further comprising a step of:

wherein if a mode in which an isochronous packet transmitted from any node that belongs to said first segment is prevented from being relayed to said second port is set, controlling to cause the isochronous packet received by said first port not to be relayed to said second port.

Claim 15. (New) A method according to claim 11, wherein said first and second ports conform to the IEEE 1394-1995 standard.